Jens B Nielsen

List of Publications by Year in Descending Order

932 papers	61,557 citations	114 h-index	212 g-index
1,010 ext. papers	75,588 ext. citations	8.2 avg, IF	8.23 L-index

#	Paper	IF	Citations
932	Genome-scale modeling of yeast metabolism: retrospectives and perspectives.. *FEMS Yeast Research*, **2022**,	3.1	1
931	Analysis of Normal Levels of Free Glycosaminoglycans in Urine and Plasma in Adults.. *Journal of Biological Chemistry*, **2022**, 101575	5.4	3
930	Multiomics Analysis Reveals the Impact of Microbiota on Host Metabolism in Hepatic Steatosis.. *Advanced Science*, **2022**, e2104373	13.6	3
929	Whole-cell modeling in yeast predicts compartment-specific proteome constraints that drive metabolic strategies.. *Nature Communications*, **2022**, 13, 801	17.4	7
928	Impairment of gut microbial biotin metabolism and host biotin status in severe obesity: effect of biotin and prebiotic supplementation on improved metabolism.. *Gut*, **2022**,	19.2	5
927	Microbiome and metabolome features of the cardiometabolic disease spectrum.. *Nature Medicine*, **2022**,	50.5	4
926	A Gene Co-Expression Network-Based Drug Repositioning Approach Identifies Candidates for Treatment of Hepatocellular Carcinoma.. *Cancers*, **2022**, 14,	6.6	1
925	Prediction of drug candidates for clear cell renal cell carcinoma using a systems biology-based drug repositioning approach.. *EBioMedicine*, **2022**, 78, 103963	8.8	1
924	Innovation trends in industrial biotechnology.. *Trends in Biotechnology*, **2022**,	15.1	2
923	Combinatorial, additive and dose-dependent drug-microbiome associations. *Nature*, **2021**,	50.4	11
922	Synthetic Biology Advanced Natural Product Discovery. *Metabolites*, **2021**, 11,	5.6	1
921	De novo biosynthesis of bioactive isoflavonoids by engineered yeast cell factories. *Nature Communications*, **2021**, 12, 6085	17.4	9
920	Combined metabolic activators therapy ameliorates liver fat in nonalcoholic fatty liver disease patients. *Molecular Systems Biology*, **2021**, 17, e10459	12.2	5
919	Yeast metabolic innovations emerged via expanded metabolic network and gene positive selection. *Molecular Systems Biology*, **2021**, 17, e10427	12.2	2
918	Constraint-based modeling of yeast mitochondria reveals the dynamics of protein import and iron-sulfur cluster biogenesis. *IScience*, **2021**, 24, 103294	6.1	0
917	A network-based approach reveals the dysregulated transcriptional regulation in non-alcoholic fatty liver disease. *IScience*, **2021**, 24, 103222	6.1	2
916	Yeast synthetic biology advances biofuel production. *Current Opinion in Microbiology*, **2021**, 65, 33-39	7.9	1

915	Mathematical modeling of proteome constraints within metabolism. *Current Opinion in Systems Biology*, **2021**, 25, 50-56	3.2	8
914	Production of β-carotene in Saccharomyces cerevisiae through altering yeast lipid metabolism. *Biotechnology and Bioengineering*, **2021**, 118, 2043-2052	4.9	8
913	Quantifying absolute gene expression profiles reveals distinct regulation of central carbon metabolism genes in yeast. *ELife*, **2021**, 10,	8.9	4
912	Expression of fungal biosynthetic gene clusters in for natural product discovery. *Synthetic and Systems Biotechnology*, **2021**, 6, 20-22	4.2	2
911	CODY enables quantitatively spatiotemporal predictions on in vivo gut microbial variability induced by diet intervention. *Proceedings of the National Academy of Sciences of the United States of America* , **2021**, 118,	11.5	5
910	Yeast optimizes metal utilization based on metabolic network and enzyme kinetics. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	5
909	FATTY ACID SYNTHESIS IS REQUIRED FOR BREAST CANCER BRAIN METASTASIS. *Nature Cancer*, **2021**, 2, 414-428	15.4	31
908	Machine learning-based investigation of the cancer protein secretory pathway. *PLoS Computational Biology*, **2021**, 17, e1008898	5	1
907	iNetModels 2.0: an interactive visualization and database of multi-omics data. *Nucleic Acids Research*, **2021**, 49, W271-W276	20.1	8
906	A novel yeast hybrid modeling framework integrating Boolean and enzyme-constrained networks enables exploration of the interplay between signaling and metabolism. *PLoS Computational Biology*, **2021**, 17, e1008891	5	3
905	Product Export in Cyanobacteria **2021**, 369-406		3
904	What We Can Learn from Measuring Metabolic Fluxes in Cyanobacteria **2021**, 89-122		
903	Proteome constraints reveal targets for improving microbial fitness in nutrient-rich environments. *Molecular Systems Biology*, **2021**, 17, e10093	12.2	6
902	Informing Pharmacokinetic Models With Physiological Data: Oral Population Modeling of L-Serine in Humans. *Frontiers in Pharmacology*, **2021**, 12, 643179	5.6	0
901	Draft Genome Sequences of Five Fungal Strains Isolated from Kefir. *Microbiology Resource Announcements*, **2021**, 10, e0019521	1.3	
900	GTR 2.0: gRNA-tRNA Array and Cas9-NG Based Genome Disruption and Single-Nucleotide Conversion in. *ACS Synthetic Biology*, **2021**, 10, 1328-1337	5.7	3
899	Genome-Scale Models **2021**, 23-71		
898	Proteome Constraints in Genome-Scale Models **2021**, 137-152		

897	Quantitative Metabolic Flux Analysis Based on Isotope Labeling **2021**, 73-136		0
896	Metabolic Engineering of Yeast **2021**, 689-733		0
895	Metabolic Engineering of Bacillus New Tools, Strains, and Concepts **2021**, 469-518		1
894	Metabolic Engineering of Corynebacterium glutamicum **2021**, 403-468		
893	Strategies and challenges with the microbial conversion of methanol to high-value chemicals. *Biotechnology and Bioengineering*, **2021**, 118, 3655-3668	4.9	1
892	Engineering yeast metabolism for the discovery and production of polyamines and polyamine analogues. *Nature Catalysis*, **2021**, 4, 498-509	36.5	6
891	BUTTERFLY: addressing the pooled amplification paradox with unique molecular identifiers in single-cell RNA-seq. *Genome Biology*, **2021**, 22, 174	18.3	1
890	Combined Metabolic Activators Accelerates Recovery in Mild-to-Moderate COVID-19. *Advanced Science*, **2021**, 8, e2101222	13.6	11
889	Metabolic Engineering of Filamentous Actinomycetes **2021**, 653-688		
888	Metabolomics **2021**, 259-299		
887	Kinetic Models of Metabolism **2021**, 153-170		
886	Pathway Design **2021**, 237-257		1
885	Genome Editing of Eukarya **2021**, 301-337		
884	Metabolic Engineering of Filamentous Fungi **2021**, 765-801		3
883	Genome-scale insights into the metabolic versatility of Limosilactobacillus reuteri. *BMC Biotechnology*, **2021**, 21, 46	3.5	1
882	Multiscale models quantifying yeast physiology: towards a whole-cell model. *Trends in Biotechnology*, **2021**,	15.1	4
881	Genome-scale metabolic network reconstruction of model animals as a platform for translational research. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
880	Mass spectrometry-based metabolomics: a guide for annotation, quantification and best reporting practices. *Nature Methods*, **2021**, 18, 747-756	21.6	83

879	Rational gRNA design based on transcription factor binding data. *Synthetic Biology*, **2021**, 6, ysab014	3.3	
878	Analytical performance of a standardized kit for mass spectrometry-based measurements of human glycosaminoglycans. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2021**, 1177, 122761	3.2	3
877	Addressing the heterogeneity in liver diseases using biological networks. *Briefings in Bioinformatics*, **2021**, 22, 1751-1766	13.4	6
876	A systems biology approach to understand gut microbiota and host metabolism in morbid obesity: design of the BARIA Longitudinal Cohort Study. *Journal of Internal Medicine*, **2021**, 289, 340-354	10.8	6
875	Systems biology based drug repositioning for development of cancer therapy. *Seminars in Cancer Biology*, **2021**, 68, 47-58	12.7	28
874	Performance of Regression Models as a Function of Experiment Noise. *Bioinformatics and Biology Insights*, **2021**, 15, 11779322211020315	5.3	2
873	Bayesian genome scale modelling identifies thermal determinants of yeast metabolism. *Nature Communications*, **2021**, 12, 190	17.4	7
872	Production of 10-methyl branched fatty acids in yeast. *Biotechnology for Biofuels*, **2021**, 14, 12	7.8	4
871	Transcriptomic response of Saccharomyces cerevisiae to octanoic acid production. *FEMS Yeast Research*, **2021**, 21,	3.1	1
870	Yeast based biorefineries for oleochemical production. *Current Opinion in Biotechnology*, **2021**, 67, 26-34	11.4	5
869	Benchmarking accuracy and precision of intensity-based absolute quantification of protein abundances in Saccharomyces cerevisiae. *Proteomics*, **2021**, 21, e2000093	4.8	4
868	Stratification of patients with clear cell renal cell carcinoma to facilitate drug repositioning. *IScience* , **2021**, 24, 102722	6.1	2
867	Expression of antibody fragments in Saccharomyces cerevisiae strains evolved for enhanced protein secretion. *Microbial Cell Factories*, **2021**, 20, 134	6.4	3
866	In vitro turnover numbers do not reflect in vivo activities of yeast enzymes. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
865	The yeastGemMap: A process diagram to assist yeast systems-metabolic studies. *Biotechnology and Bioengineering*, **2021**, 118, 4800-4814	4.9	
864	Metabolic network remodelling enhances yeast fitness on xylose using aerobic glycolysis. *Nature Catalysis*, **2021**, 4, 783-796	36.5	3
863	A single chromosome strain of S. cerevisiae exhibits diminished ethanol metabolism and tolerance. *BMC Genomics*, **2021**, 22, 688	4.5	0
862	Microbial production of chemicals driven by CRISPR-Cas systems. *Current Opinion in Biotechnology*, **2021**, 73, 34-42	11.4	1

861	Metabolic cooperation and spatiotemporal niche partitioning in a kefir microbial community. *Nature Microbiology*, **2021**, 6, 196-208	26.6	44
860	Adaptations in metabolism and protein translation give rise to the Crabtree effect in yeast.. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	3
859	Mapping of Nonhomologous End Joining-Mediated Integration Facilitates Genome-Scale Trackable Mutagenesis in .. *ACS Synthetic Biology*, **2021**,	5.7	1
858	Expressing a cytosolic pyruvate dehydrogenase complex to increase free fatty acid production in Saccharomyces cerevisiae. *Microbial Cell Factories*, **2020**, 19, 226	6.4	4
857	Evolution from adherent to suspension: systems biology of HEK293 cell line development. *Scientific Reports*, **2020**, 10, 18996	4.9	22
856	Stress-induced expression is enriched for evolutionarily young genes in diverse budding yeasts. *Nature Communications*, **2020**, 11, 2144	17.4	7
855	Quantitative analysis of amino acid metabolism in liver cancer links glutamate excretion to nucleotide synthesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 10294-10304	11.5	19
854	Statin therapy is associated with lower prevalence of gut microbiota dysbiosis. *Nature*, **2020**, 581, 310-315	50.4	100
853	Absolute yeast mitochondrial proteome quantification reveals trade-off between biosynthesis and energy generation during diauxic shift. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 7524-7535	11.5	31
852	Rewiring carbon flux in Escherichia coli using a bifunctional molecular switch. *Metabolic Engineering* , **2020**, 61, 47-57	9.7	13
851	Current Status of COVID-19 Therapies and Drug Repositioning Applications. *IScience*, **2020**, 23, 101303	6.1	54
850	Bioprospecting Through Cloning of Whole Natural Product Biosynthetic Gene Clusters. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 526	5.8	12
849	Third-generation biorefineries as the means to produce fuels and chemicals from CO2. *Nature Catalysis*, **2020**, 3, 274-288	36.5	94
848	Exercise-Mediated Lowering of Glutamine Availability Suppresses Tumor Growth and Attenuates Muscle Wasting. *IScience*, **2020**, 23, 100978	6.1	4
847	Molecular natural history of breast cancer: Leveraging transcriptomics to predict breast cancer progression and aggressiveness. *Cancer Medicine*, **2020**, 9, 3551-3562	4.8	3
846	Building blocks are synthesized on demand during the yeast cell cycle. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 7575-7583	11.5	12
845	An atlas of human metabolism. *Science Signaling*, **2020**, 13,	8.8	78
844	Metabolic Engineering of for Rosmarinic Acid Production. *ACS Synthetic Biology*, **2020**, 9, 1978-1988	5.7	6

843	MEMOTE for standardized genome-scale metabolic model testing. *Nature Biotechnology*, **2020**, 38, 272-276	44.5	121
842	Current state of aromatics production using yeast: achievements and challenges. *Current Opinion in Biotechnology*, **2020**, 65, 65-74	11.4	20
841	Multidimensional engineering of Saccharomyces cerevisiae for efficient synthesis of medium-chain fatty acids. *Nature Catalysis*, **2020**, 3, 64-74	36.5	42
840	Comprehensive understanding of Saccharomyces cerevisiae phenotypes with whole-cell model WM_S288C. *Biotechnology and Bioengineering*, **2020**, 117, 1562-1574	4.9	12
839	The acute effect of metabolic cofactor supplementation: a potential therapeutic strategy against non-alcoholic fatty liver disease. *Molecular Systems Biology*, **2020**, 16, e9495	12.2	16
838	Meta-analysis of the gut microbiota in predicting response to cancer immunotherapy in metastatic melanoma. *JCI Insight*, **2020**, 5,	9.9	23
837	Integrated Metabolic Modeling, Culturing, and Transcriptomics Explain Enhanced Virulence of Vibrio cholerae during Coinfection with Enterotoxigenic Escherichia coli. *MSystems*, **2020**, 5,	7.6	6
836	DSAVE: Detection of misclassified cells in single-cell RNA-Seq data. *PLoS ONE*, **2020**, 15, e0243360	3.7	0
835	Nitrogen limitation reveals large reserves in metabolic and translational capacities of yeast. *Nature Communications*, **2020**, 11, 1881	17.4	16
834	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein secretion. *Nature Communications*, **2020**, 11, 68	17.4	37
833	Engineering yeast phospholipid metabolism for de novo oleoylethanolamide production. *Nature Chemical Biology*, **2020**, 16, 197-205	11.7	7
832	Optimizing cultivation of for fast growth and cordycepin overproduction using rational design of synthetic media. *Computational and Structural Biotechnology Journal*, **2020**, 18, 1-8	6.8	6
831	Yeast systems biology in understanding principles of physiology underlying complex human diseases. *Current Opinion in Biotechnology*, **2020**, 63, 63-69	11.4	2
830	Applications of Genome-Wide Screening and Systems Biology Approaches in Drug Repositioning. *Cancers*, **2020**, 12,	6.6	8
829	Combining mechanistic and machine learning models for predictive engineering and optimization of tryptophan metabolism. *Nature Communications*, **2020**, 11, 4880	17.4	54
828	Advances in Metabolic Engineering of for Cocoa Butter Equivalent Production. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 594081	5.8	13
827	Promiscuous phosphoketolase and metabolic rewiring enables novel non-oxidative glycolysis in yeast for high-yield production of acetyl-CoA derived products. *Metabolic Engineering*, **2020**, 62, 150-160	9.7	7
826	Imidazole propionate is increased in diabetes and associated with dietary patterns and altered microbial ecology. *Nature Communications*, **2020**, 11, 5881	17.4	29

825	Deep learning suggests that gene expression is encoded in all parts of a co-evolving interacting gene regulatory structure. *Nature Communications*, **2020**, 11, 6141	17.4	25
824	Pathway engineering in yeast for synthesizing the complex polyketide bikaverin. *Nature Communications*, **2020**, 11, 6197	17.4	11
823	Different Routes of Protein Folding Contribute to Improved Protein Production in Saccharomyces cerevisiae. *MBio*, **2020**, 11,	7.8	4
822	Rewiring Central Carbon Metabolism Ensures Increased Provision of Acetyl-CoA and NADPH Required for 3-OH-Propionic Acid Production. *ACS Synthetic Biology*, **2020**, 9, 3236-3244	5.7	5
821	Proteome reallocation from amino acid biosynthesis to ribosomes enables yeast to grow faster in rich media. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 21804-21812	11.5	14
820	Elucidating aromatic acid tolerance at low pH in using adaptive laboratory evolution. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27954-27961	11.5	15
819	Engineering carboxylic acid reductase for selective synthesis of medium-chain fatty alcohols in yeast. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 22974-22983	11.5	10
818	Sources of variation in cell-type RNA-Seq profiles. *PLoS ONE*, **2020**, 15, e0239495	3.7	4
817	Pan-cancer analysis of the metabolic reaction network. *Metabolic Engineering*, **2020**, 57, 51-62	9.7	13
816	Metabolic Profiling and Compound-Class Identification Reveal Alterations in Serum Triglyceride Levels in Mice Immunized with Human Vaccine Adjuvant Alum. *Journal of Proteome Research*, **2020**, 19, 269-278	5.6	2
815	Improvement in the Current Therapies for Hepatocellular Carcinoma Using a Systems Medicine Approach. *Advanced Biology*, **2020**, 4, e2000030	3.5	6
814	A bioinformatic pipeline to analyze ChIP-exo datasets. *Biology Methods and Protocols*, **2019**, 4, bpz011	2.4	3
813	Adaptive laboratory evolution of tolerance to dicarboxylic acids in Saccharomyces cerevisiae. *Metabolic Engineering*, **2019**, 56, 130-141	9.7	40
812	The pan-genome of Saccharomyces cerevisiae. *FEMS Yeast Research*, **2019**, 19,	3.1	6
811	Model-Assisted Fine-Tuning of Central Carbon Metabolism in Yeast through dCas9-Based Regulation. *ACS Synthetic Biology*, **2019**, 8, 2457-2463	5.7	23
810	Construction of mini-chemostats for high-throughput strain characterization. *Biotechnology and Bioengineering*, **2019**, 116, 1029-1038	4.9	12
809	SLIMEr: probing flexibility of lipid metabolism in yeast with an improved constraint-based modeling framework. *BMC Systems Biology*, **2019**, 13, 4	3.5	19
808	Antibiotic Lethality Is Impacted by Nutrient Availabilities: New Insights from Machine Learning. *Cell*, **2019**, 177, 1373-1374	56.2	1

807	Engineering Saccharomyces cerevisiae cells for production of fatty acid-derived biofuels and chemicals. *Open Biology*, **2019**, 9, 190049	7	29
806	Dysregulated autophagy in muscle precursor cells from humans with type 2 diabetes. *Scientific Reports*, **2019**, 9, 8169	4.9	9
805	Proteome analysis of xylose metabolism in during lipid production. *Biotechnology for Biofuels*, **2019**, 12, 137	7.8	32
804	Recent trends in metabolic engineering of microbial chemical factories. *Current Opinion in Biotechnology*, **2019**, 60, 188-197	11.4	55
803	Machine Learning Applied to Predicting Microorganism Growth Temperatures and Enzyme Catalytic Optima. *ACS Synthetic Biology*, **2019**, 8, 1411-1420	5.7	32
802	Comparative Transcriptome Analysis Shows Conserved Metabolic Regulation during Production of Secondary Metabolites in Filamentous Fungi. *MSystems*, **2019**, 4,	7.6	7
801	Cell factory engineering for improved production of natural products. *Natural Product Reports*, **2019**, 36, 1233-1236	15.1	24
800	RNAi expression tuning, microfluidic screening, and genome recombineering for improved protein production in. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 9324-9332	11.5	22
799	A gRNA-tRNA array for CRISPR-Cas9 based rapid multiplexed genome editing in Saccharomyces cerevisiae. *Nature Communications*, **2019**, 10, 1053	17.4	78
798	A Systematic Investigation of the Malignant Functions and Diagnostic Potential of the Cancer Secretome. *Cell Reports*, **2019**, 26, 2622-2635.e5	10.6	28
797	Simplified Intestinal Microbiota to Study Microbe-Diet-Host Interactions in a Mouse Model. *Cell Reports*, **2019**, 26, 3772-3783.e6	10.6	35
796	Strategies and challenges for metabolic rewiring. *Current Opinion in Systems Biology*, **2019**, 15, 30-38	3.2	21
795	Identification of genes involved in shea butter biosynthesis from Vitellaria paradoxa fruits through transcriptomics and functional heterologous expression. *Applied Microbiology and Biotechnology*, **2019**, 103, 3727-3736	5.7	10
794	Heterologous phosphoketolase expression redirects flux towards acetate, perturbs sugar phosphate pools and increases respiratory demand in Saccharomyces cerevisiae. *Microbial Cell Factories*, **2019**, 18, 25	6.4	16
793	Increasing jojoba-like wax ester production in Saccharomyces cerevisiae by enhancing very long-chain, monounsaturated fatty acid synthesis. *Microbial Cell Factories*, **2019**, 18, 49	6.4	13
792	Predictive models of eukaryotic transcriptional regulation reveals changes in transcription factor roles and promoter usage between metabolic conditions. *Nucleic Acids Research*, **2019**, 47, 4986-5000	20.1	14
791	Yeast Systems Biology: Model Organism and Cell Factory. *Biotechnology Journal*, **2019**, 14, e1800421	5.6	66
790	Turnover Dependent Phenotypic Simulation: A Quantitative Constraint-Based Simulation Method That Accommodates All Main Strain Design Strategies. *ACS Synthetic Biology*, **2019**, 8, 976-988	5.7	

789	Effects of overexpression of STB5 in Saccharomyces cerevisiae on fatty acid biosynthesis, physiology and transcriptome. *FEMS Yeast Research*, **2019**, 19,	3.1	6
788	A consensus S. cerevisiae metabolic model Yeast8 and its ecosystem for comprehensively probing cellular metabolism. *Nature Communications*, **2019**, 10, 3586	17.4	83
787	Expanding the Dynamic Range of a Transcription Factor-Based Biosensor in. *ACS Synthetic Biology*, **2019**, 8, 1968-1975	5.7	18
786	FadR-Based Biosensor-Assisted Screening for Genes Enhancing Fatty Acyl-CoA Pools in. *ACS Synthetic Biology*, **2019**, 8, 1788-1800	5.7	27
785	ChIP-exo analysis highlights Fkh1 and Fkh2 transcription factors as hubs that integrate multi-scale networks in budding yeast. *Nucleic Acids Research*, **2019**, 47, 7825-7841	20.1	5
784	Modelling approaches for studying the microbiome. *Nature Microbiology*, **2019**, 4, 1253-1267	26.6	56
783	Metagenomic analysis of bile salt biotransformation in the human gut microbiome. *BMC Genomics*, **2019**, 20, 517	4.5	26
782	Current Considerations and Future Advances in Chemically Defined Medium Development for the Production of Protein Therapeutics in CHO Cells **2019**, 279-294		
781	Mammalian Fed-batch Cell Culture for Biopharmaceuticals **2019**, 313-345		1
780	Enhancing Product and Bioprocess Attributes Using Genome-Scale Models of CHO Metabolism **2019**, 73-95		1
779	Adaption of Generic Metabolic Models to Specific Cell Lines for Improved Modeling of Biopharmaceutical Production and Prediction of Processes **2019**, 127-162		
778	Systems biology perspective for studying the gut microbiota in human physiology and liver diseases. *EBioMedicine*, **2019**, 49, 364-373	8.8	13
777	Big data in yeast systems biology. *FEMS Yeast Research*, **2019**, 19,	3.1	7
776	Carbohydrate active enzymes are affected by diet transition from milk to solid food in infant gut microbiota. *FEMS Microbiology Ecology*, **2019**, 95,	4.3	6
775	Identification and characterisation of two high-affinity glucose transporters from the spoilage yeast Brettanomyces bruxellensis. *FEMS Microbiology Letters*, **2019**, 366,	2.9	7
774	Complex I is bypassed during high intensity exercise. *Nature Communications*, **2019**, 10, 5072	17.4	13
773	Reconstruction and analysis of a Kluyveromyces marxianus genome-scale metabolic model. *BMC Bioinformatics*, **2019**, 20, 551	3.6	21
772	Rewiring carbon metabolism in yeast for high level production of aromatic chemicals. *Nature Communications*, **2019**, 10, 4976	17.4	72

771	Metabolic engineering and transcriptomic analysis of Saccharomyces cerevisiae producing p-coumaric acid from xylose. *Microbial Cell Factories*, **2019**, 18, 191	6.4	14
770	Genome-scale model of Rhodotorula toruloides metabolism. *Biotechnology and Bioengineering*, **2019**, 116, 3396-3408	4.9	29
769	Genome-Scale Metabolic Modeling from Yeast to Human Cell Models of Complex Diseases: Latest Advances and Challenges. *Methods in Molecular Biology*, **2019**, 2049, 329-345	1.4	10
768	Harnessing xylose pathways for biofuels production. *Current Opinion in Biotechnology*, **2019**, 57, 56-65	11.4	38
767	Energy metabolism controls phenotypes by protein efficiency and allocation. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 17592-17597	11.5	42
766	The human secretome. *Science Signaling*, **2019**, 12,	8.8	99
765	The Translational Status of Cancer Liquid Biopsies. *Regenerative Engineering and Translational Medicine*, **2019**, 7, 312	2.4	16
764	Comparative genomics study reveals Red Sea Bacillus with characteristics associated with potential microbial cell factories (MCFs). *Scientific Reports*, **2019**, 9, 19254	4.9	4
763	Tackling Cancer with Yeast-Based Technologies. *Trends in Biotechnology*, **2019**, 37, 592-603	15.1	16
762	Lipid engineering combined with systematic metabolic engineering of Saccharomyces cerevisiae for high-yield production of lycopene. *Metabolic Engineering*, **2019**, 52, 134-142	9.7	139
761	Characterization of heterogeneous redox responses in hepatocellular carcinoma patients using network analysis. *EBioMedicine*, **2019**, 40, 471-487	8.8	29
760	Pyruvate kinase L/R is a regulator of lipid metabolism and mitochondrial function. *Metabolic Engineering*, **2019**, 52, 263-272	9.7	17
759	Saccharomyces cerevisiae displays a stable transcription start site landscape in multiple conditions. *FEMS Yeast Research*, **2019**, 19,	3.1	8
758	Synthetic Biology of Yeast. *Biochemistry*, **2019**, 58, 1511-1520	3.2	18
757	Recon3D enables a three-dimensional view of gene variation in human metabolism. *Nature Biotechnology*, **2018**, 36, 272-281	44.5	283
756	Targeting CDK2 overcomes melanoma resistance against BRAF and Hsp90 inhibitors. *Molecular Systems Biology*, **2018**, 14, e7858	12.2	35
755	Metabolite secretion in microorganisms: the theory of metabolic overflow put to the test. *Metabolomics*, **2018**, 14, 43	4.7	29
754	Systems biology in hepatology: approaches and applications. *Nature Reviews Gastroenterology and Hepatology*, **2018**, 15, 365-377	24.2	70

753	Metabolite Depletion Affects Flux Profiling of Cell Lines. *Trends in Biochemical Sciences*, **2018**, 43, 395-397	10.3	4
752	Metabolic engineering of for overproduction of triacylglycerols. *Metabolic Engineering Communications*, **2018**, 6, 22-27	6.5	42
751	An Integrated Understanding of the Rapid Metabolic Benefits of a Carbohydrate-Restricted Diet on Hepatic Steatosis in Humans. *Cell Metabolism*, **2018**, 27, 559-571.e5	24.6	189
750	Complete genomic and transcriptional landscape analysis using third-generation sequencing: a case study of Saccharomyces cerevisiae CEN.PK113-7D. *Nucleic Acids Research*, **2018**, 46, e38	20.1	91
749	Redirection of lipid flux toward phospholipids in yeast increases fatty acid turnover and secretion. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 1262-1267	11.5	30
748	Advancing biotechnology with CRISPR/Cas9: recent applications and patent landscape. *Journal of Industrial Microbiology and Biotechnology*, **2018**, 45, 467-480	4.2	18
747	Engineering 1-Alkene Biosynthesis and Secretion by Dynamic Regulation in Yeast. *ACS Synthetic Biology*, **2018**, 7, 584-590	5.7	41
746	Modulation of saturation and chain length of fatty acids in Saccharomyces cerevisiae for production of cocoa butter-like lipids. *Biotechnology and Bioengineering*, **2018**, 115, 932-942	4.9	18
745	Screening of 2A peptides for polycistronic gene expression in yeast. *FEMS Yeast Research*, **2018**, 18,	3.1	19
744	DCEO Biotechnology: Tools To Design, Construct, Evaluate, and Optimize the Metabolic Pathway for Biosynthesis of Chemicals. *Chemical Reviews*, **2018**, 118, 4-72	68.1	97
743	TCSBN: a database of tissue and cancer specific biological networks. *Nucleic Acids Research*, **2018**, 46, D595-D600	20.1	34
742	Barriers and opportunities in bio-based production of hydrocarbons. *Nature Energy*, **2018**, 3, 925-935	62.3	96
741	Gut microbiota dysbiosis is associated with malnutrition and reduced plasma amino acid levels: Lessons from genome-scale metabolic modeling. *Metabolic Engineering*, **2018**, 49, 128-142	9.7	34
740	Challenges in modeling the human gut microbiome. *Nature Biotechnology*, **2018**, 36, 682-686	44.5	17
739	Drug Repositioning for Effective Prostate Cancer Treatment. *Frontiers in Physiology*, **2018**, 9, 500	4.6	43
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